Datasheet for ABIN129556

anti-RAD23A antibody (AA 115-140)

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Overview

Quantity:	100 µg
Target:	RAD23A
Binding Specificity:	AA 115-140
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	HR23A Antibody
Immunogen:	Immunogen: This affinity purified antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near aa 115-140 of human HR23A protein. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	Reactivity occurs against human HR23A protein.
Characteristics:	Synonyms: goat anti-HR23A Antibody, hHR23A antibody, MGC111083 antibody, RAD23 homolog A antibody, RAD23 yeast homolog A antibody, RAD23A antibody, UV excision repair protein RAD23 homolog A
Purification:	This is an affinity purified antibody produced by immunoaffinity chromatography using the immunizing peptide after immobilization to a solid phase.

Product Details

Sterility:	Sterile filtered

Target Details

Target:	RAD23A
Alternative Name:	RAD23A (RAD23A Products)
Background:	Background: HR23A (also known as UV excision repair protein RAD23 homolog A) is one of two human homologs of Saccharomyces cerevisiae Rad23 (hHR23A and hHR23B), a protein involved in nucleotide excision repair (NER). This protein was shown to interact with, and elevate the nucleotide excision activity of 3-methyladenine-DNA glycosylase (MPG), which suggested a role in DNA damage recognition in base excision repair. This protein contains an N-terminal ubiquitin-like domain, which was reported to interact with 26S proteasome, as well as with ubiquitin protein ligase E6AP, and thus suggests that this protein may be involved in the ubiquitin mediated proteolytic pathway in cells.
Gene ID:	5886, 4826964
UniProt:	P54725
Pathways:	DNA Damage Repair

Application Details

Application Notes:	Application Note: This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 60 kDa in size corresponding to HR23A by western blotting in the appropriate cell lysate or extract. Western Blot Dilution: 1:500 - 1:2,000 ELISA Dilution: 1:4,000 - 1:16,000 Other: User Optimized
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.2 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None

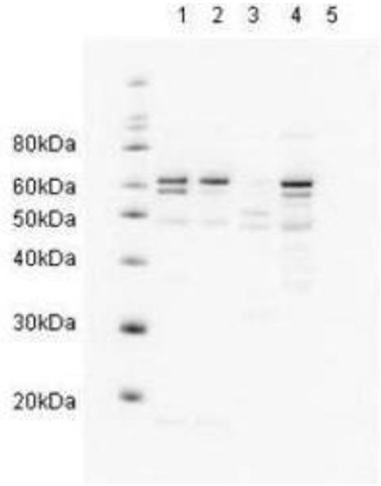
Handling

	Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Publications

Product cited in:	Zhu, Wani, Arab, El-Mahdy, Ray, Wani: "Chromatin restoration following nucleotide excision repair involves the incorporation of ubiquitinated H2A at damaged genomic sites." in: **DNA repair**, Vol. 8, Issue 2, pp. 262-73, (2009) (PubMed).

Images



Western Blotting

Image 1. Western blot showing Affinity Purified anti-HR23A antibody detects endogenous human HR23A. Reactivity is shown against HeLa nuclear extract (lane 1) and HeLa (lane 2), A431 (lane 3), Jurkat (lane 4) and 293 whole cell lysates (lane 5). Comparison to a molecular weight marker (at left) indicates a band of ~60 kDa corresponding to HR23A. The blot was incubated with a 1:500 dilution of the antibody at room temperature followed by detection using HRP conjugated Rb-a-Goat IgG and chemilumi-nescence reagent with a 30-min exposure time. Other detection systems will yield similar results.